

UTAH NATIONAL GUARD – CAMP WILLIAMS

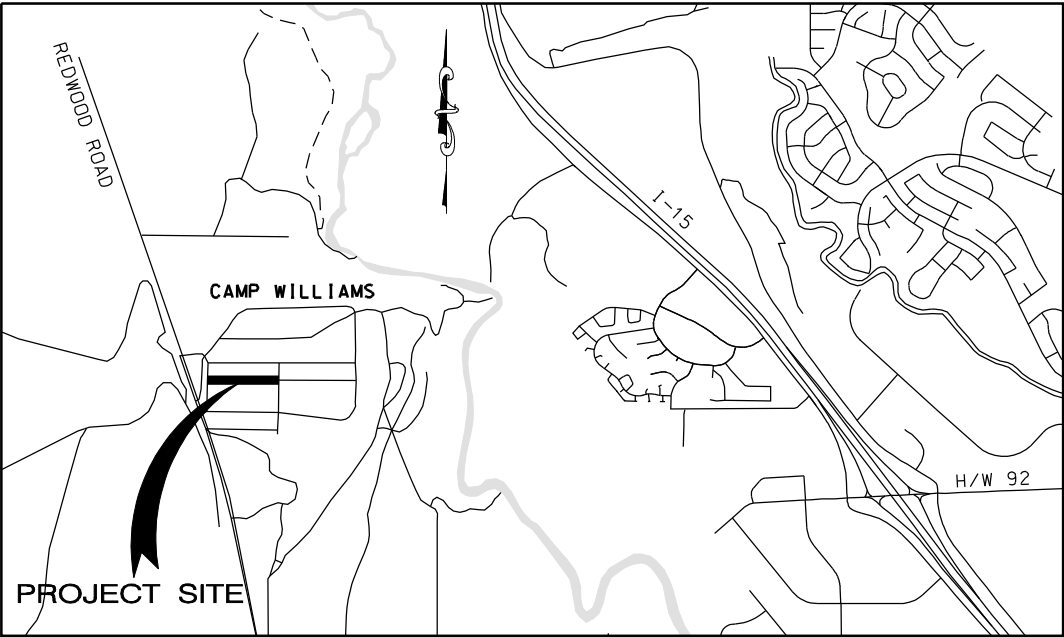
UTAH AVENUE (WEST) STORM DRAIN

DFCM PROJECT NO. 05263480

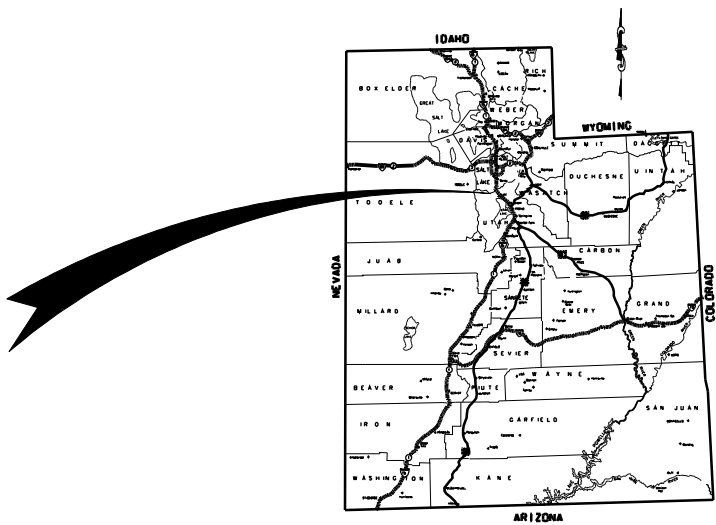
JULY 2007

SHEET INDEX

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1	TITLE SHEET
2	INDEX /LEGEND
UT-1 TO UT-2	PLAN AND PROFILE SHEETS
DT-1 TO DT-2	DETAIL SHEETS

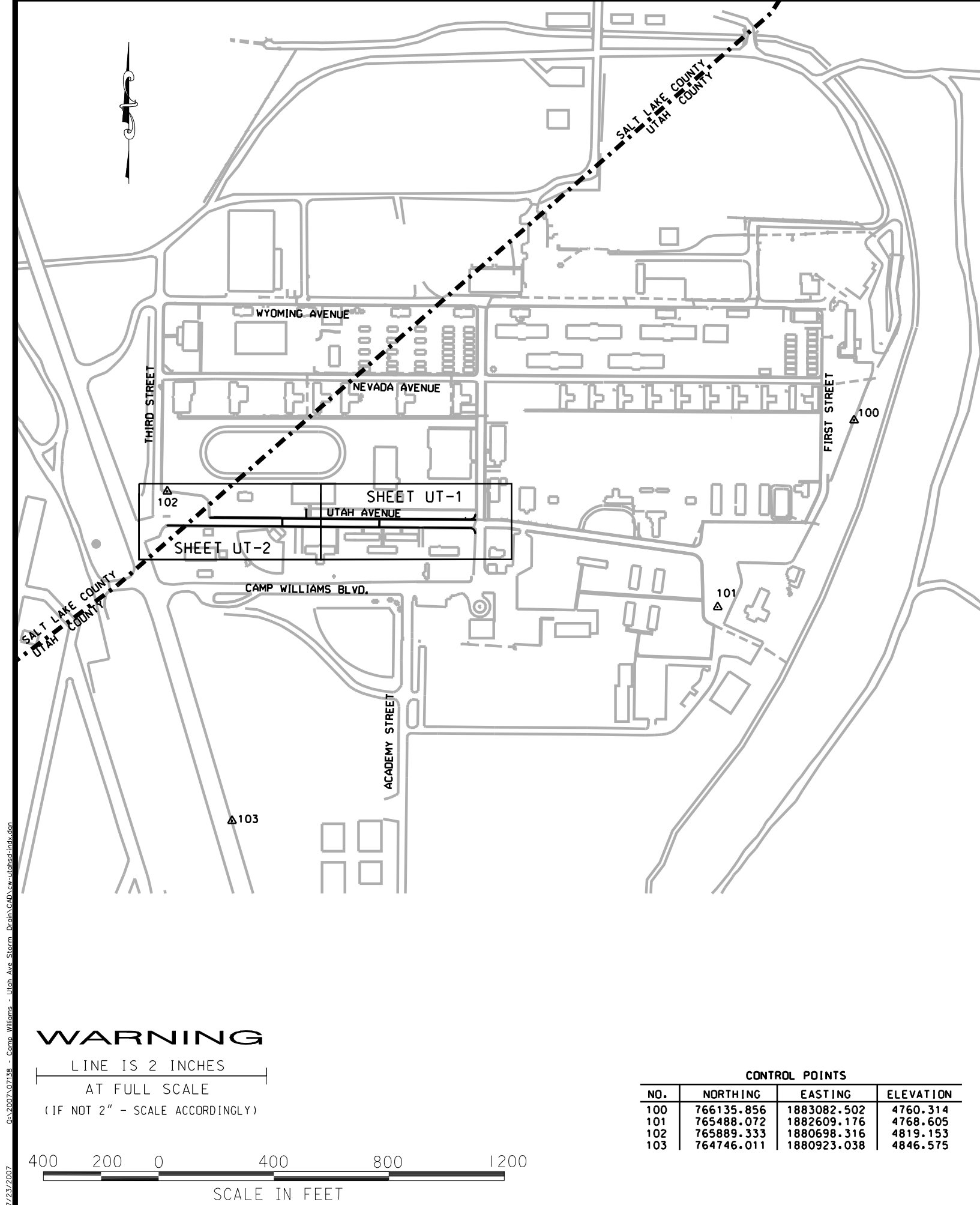


VICINITY MAP



**CIVIL
SCIENCE**

ENGINEERS - SURVEYORS - PLANNERS - SCIENTISTS
3160 West Clubhouse Drive
Lehi, UT 84043
(801) 768-7200
(801) 768-7201 (FAX)
CONTACT: JAY MEACHAM
PROJECT NO. 07138.00



WARNING
LINE IS 2 INCHES
AT FULL SCALE
(IF NOT 2" - SCALE ACCORDINGLY)



CONTROL POINTS			
NO.	NORTHING	EASTING	ELEVATION
100	766135.856	1883082.502	4760.314
101	765488.072	1882609.176	4768.605
102	765889.333	1880698.316	4819.153
103	764746.011	1880923.038	4846.575

- PROJECT NOTES:**
- FOR ANY QUESTIONS DEALING WITH CAMP APPROVALS, SCHEDULING, OR PERMITS CONTACT KENT BARLOW (801-253-5427). FOR UTILITY QUESTIONS AND SHUTDOWNS CONTACT MIKE OSBORN (801-716-9049).
 - CONTRACTOR WILL BE SOLELY RESPONSIBLE TO PROVIDE ADEQUATE MEASURES TO CONTROL AND MAINTAIN ALL STORM WATER WITHIN PROJECT LIMITS DURING CONSTRUCTION. THIS WILL INCLUDE ALL BEST MANAGEMENT PRACTICES FOR THE CONTROL OF EROSION AND PROTECTION OR CONTROL OF RUNOFF PRIOR TO ENTERING ANY STORM DRAINAGE PIPE SYSTEM OR LEAVING THE CONSTRUCTION SITE.
 - THE CONTRACTOR SHALL USE EXTREME CAUTION WHEN WORKING NEAR OVERHEAD UTILITIES SO AS TO SAFELY PROTECT ALL PERSONNEL AND EQUIPMENT, AND SHALL BE RESPONSIBLE FOR ALL COST AND LIABILITY IN CONNECTION THEREWITH.
 - EXISTING UTILITIES ARE LOCATED ON PLANS FOR THE CONVENIENCE OF THE CONTRACTOR. THE CONTRACTOR SHALL BEAR FULL RESPONSIBILITY FOR THE PROTECTION OF UTILITIES AND THE ENGINEER BEARS NO RESPONSIBILITY FOR UTILITIES NOT SHOWN ON THE PLANS OR NOT IN THE LOCATION SHOWN ON THE PLANS. EXISTING UTILITIES WHERE SHOWN MAY NOT BE COMPLETE AND ARE TO BE VERIFIED BEFORE CONSTRUCTION. BLUE STAKING TO BE PERFORMED BY CAMP PERSONNEL UPON 48 HOUR NOTICE BY CONTRACTOR. CONTRACTOR TO POTHOLE EXISTING UTILITIES AND VERIFY PIPE CLEARANCE PRIOR TO CONSTRUCTION. CONTRACTOR TO SUBMIT CUT SHEETS AFTER POT HOLING FOR APPROVAL 5 WORKING DAYS BEFORE CONSTRUCTION. AFTER SUBMITTED, THE ENGINEER MAY APPROVE MINOR ADJUSTMENTS TO PIPE SLOPES TO MINIMIZE IMPACT TO EXISTING UTILITIES.
 - THE CONTRACTOR SHALL TAKE ALL PRECAUTIONARY MEASURES NECESSARY TO PROTECT EXISTING UTILITY LINES, STRUCTURES AND STREET IMPROVEMENTS WHICH ARE TO REMAIN IN PLACE, FROM DAMAGE, AND ALL SUCH IMPROVEMENTS OR STRUCTURES DAMAGED BY THE CONTRACTOR'S OPERATIONS SHALL BE REPAIRED OR REPLACED SATISFACTORY TO THE EXPENSE OF THE CONTRACTOR.
 - ROADWAY CROSS SLOPES WILL BE THOSE SHOWN ON THE PLANS AND WILL BEGIN AT THE ROADWAY EDGE CONTROL (CURB & GUTTER, VALLEY GUTTER, STEM WALL, OR ASPHALT) AND PROJECT TO THE ROADWAY CENTERLINE.
 - AC PAVEMENT TO BE ONE-HALF INCH (1/2) ABOVE LIP OF ALL GUTTERS AFTER COMPACTION, EXCEPT AT SIDEWALK RAMPS AND CROSS GUTTERS.
 - CONTRACTOR SHALL ADJUST ALL NEW AND EXISTING VALVE BOXES, MANHOLE RIMS, AND SEWER CLEAN OUTS, ETC. TO FINISH GRADE AS APPLICABLE WHETHER OR NOT THEY ARE SHOWN ON THE PLANS.
 - THE USE OF POTABLE OR SECONDARY WATER IS AVAILABLE AT NO COST FOR BUILDING OR CONSTRUCTION PURPOSES INCLUDING CONSOLIDATION OF BACKFILL OR DUST CONTROL. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY APPROVALS FOR CONSTRUCTION WATER THROUGH MIKE OSBORN (801-716-9049).
 - ALL MANHOLES, GRATES, BOXES, AND COVERS TO HAVE H20 LOADING.
 - ALL STORM DRAIN PIPE TO BE HDPE PER SPECIFICATIONS.
 - IN THE EVENT THAT ANY UNFORESEEN CONDITIONS NOT COVERED BY THESE NOTES ARE ENCOUNTERED DURING GRADING OPERATIONS, THE OWNER AND ENGINEER SHALL BE IMMEDIATELY NOTIFIED AND ALLOWED FOR UP TO 2 WORKING DAYS TO DEVELOP SOLUTIONS.

LEGEND

- | | | | |
|------------|-------------------------------|---|------------------------|
| UP | Power Buried | ⊙ | Storm Drain Manhole |
| OP | Power Overhead | ⊞ | Electrical Transformer |
| --- | Existing Pipe | ⊕ | Fire Hydrant |
| ~ | Fence Chain Link | ⊗ | Water Valve |
| X | Fence Wire | ⊞ | Cable Box |
| □ | Fence Wood | + | Sign |
| G | Gas Line | ⊞ | Irrigation Box |
| IR | Pressure Irrigation | ⊞ | Irrigation Valve |
| SS | Sanitary Sewer | ⊞ | Sump |
| --- | Pavement Marking (Skip) | ⊞ | Telephone Pedestal |
| --- | Pavement Marking (Skip Solid) | ⊞ | Telephone Manhole |
| SD | Storm Drain | ⊞ | Water Meter |
| --- | Stream or Ditch | ✓ | Guy Wire |
| BT | Telephone Buried | ⊞ | Power Pole |
| FIBEROPTIC | Fiberoptic | ⊞ | Mailbox |
| --- | Tree Line | ⊞ | Sewer Manhole |
| --- | Wall Block Exist | ⊞ | Water Manhole |
| w | Water Line | ⊞ | Survey Control Point |
| ETV | Cable / Tele | ⊞ | Storm Drain Inlet |

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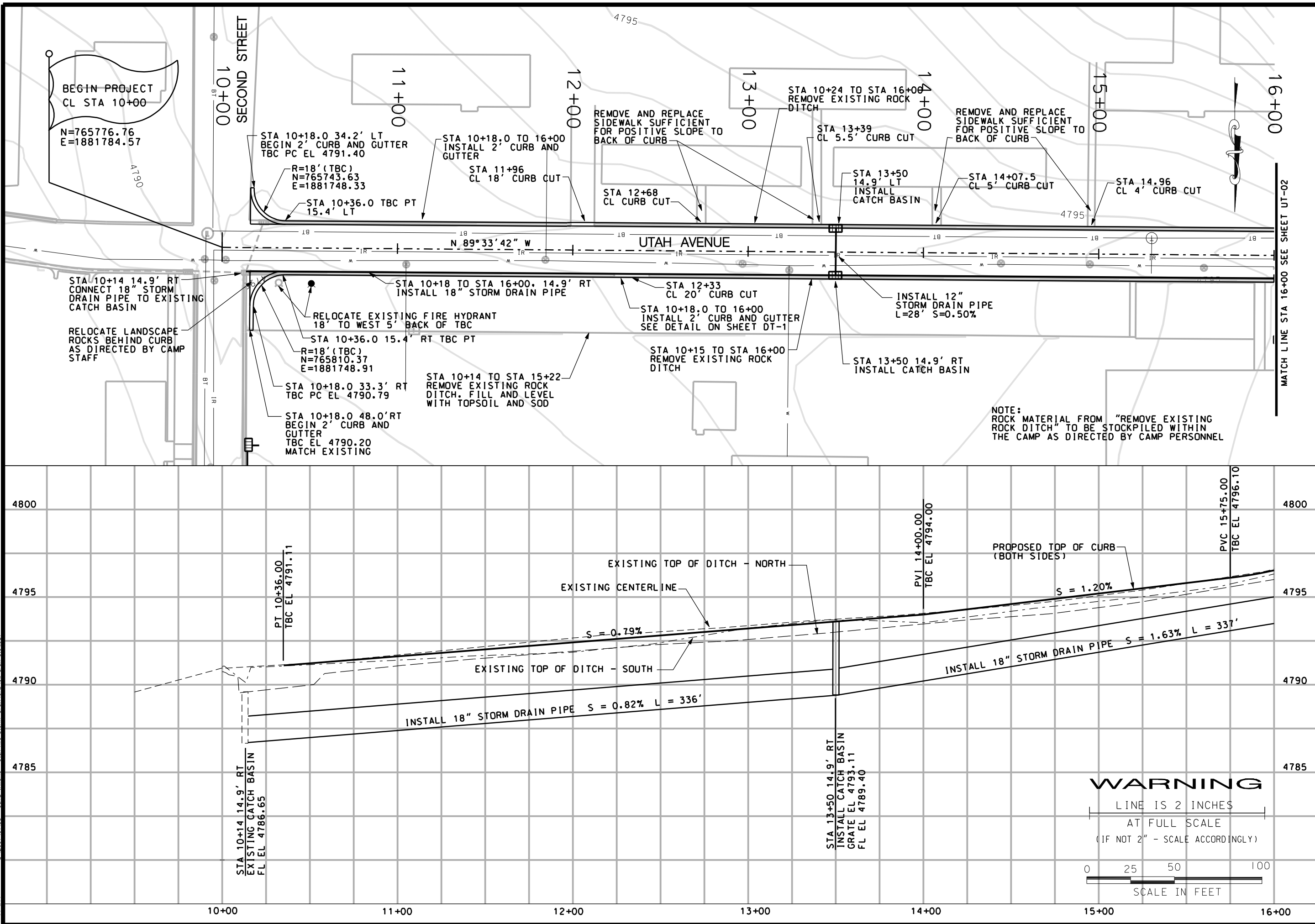
INDEX / LEGEND

UTAH COUNTY
SHEET NO. 2

SCALE	AS SHOWN
DRAWN	CP
CHECKED	JFM
APPROVED	RMC
DATE	06-07
PROJECT NO.	07138-00

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7/30/2007 Q:\2007\07138 - Camp Williams - Utah Ave Storm Drain\CAD\New.dwg:dlm



AS SHOWN	SCALE	PROJECT NO.
GP	DRAWN	07138-00
JFM	CHECKED	
RME	APPROVED	
06-07	DATE	

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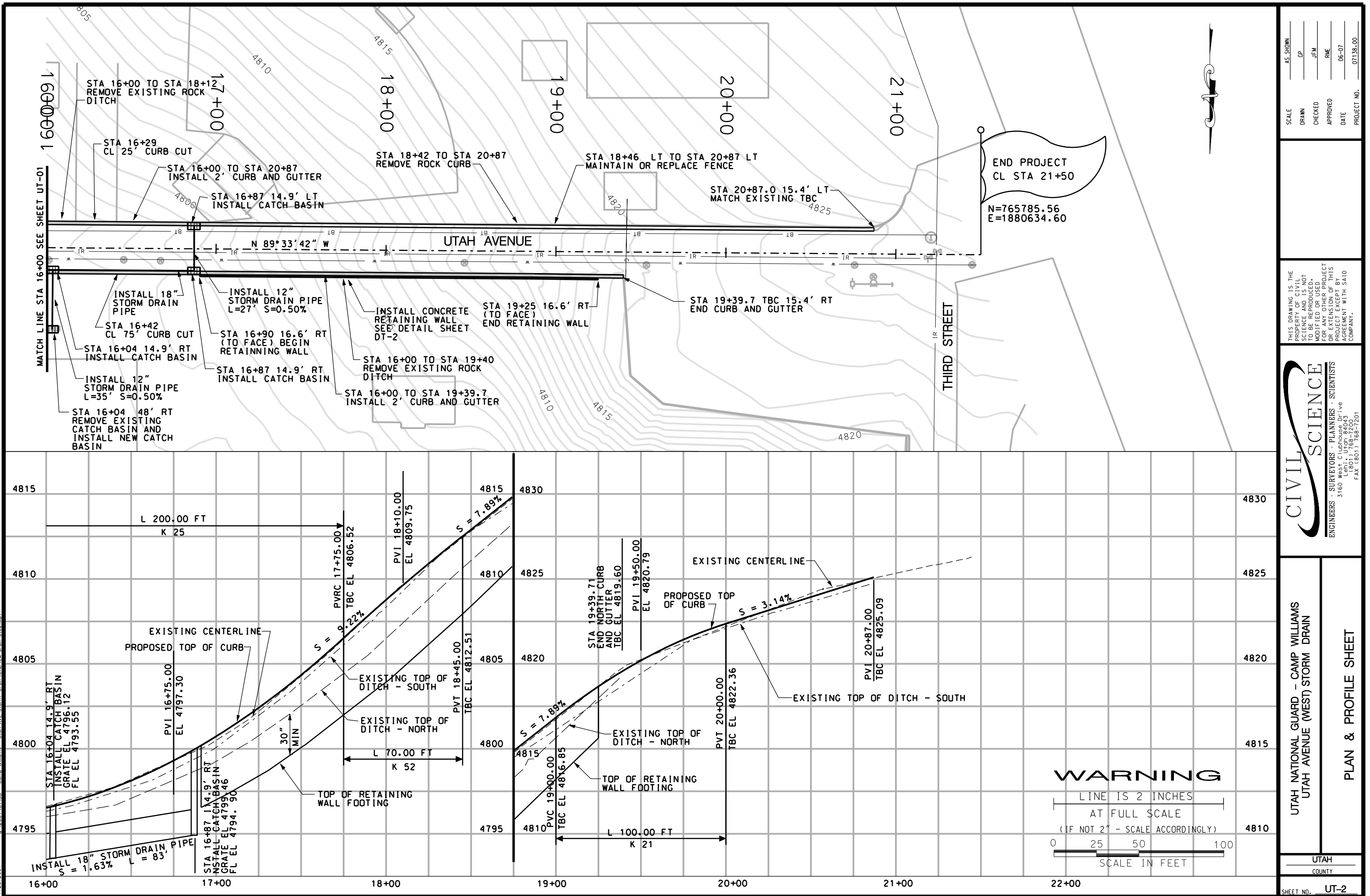
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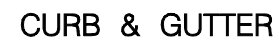
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PLAN & PROFILE SHEET

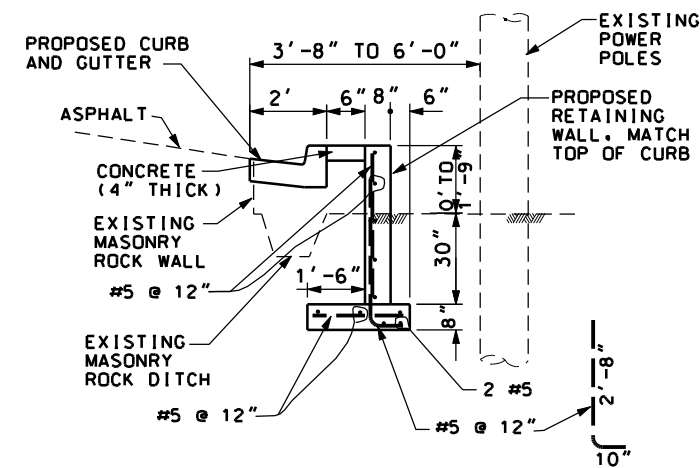
UTAH
COUNTY

SHEET NO. UT-1

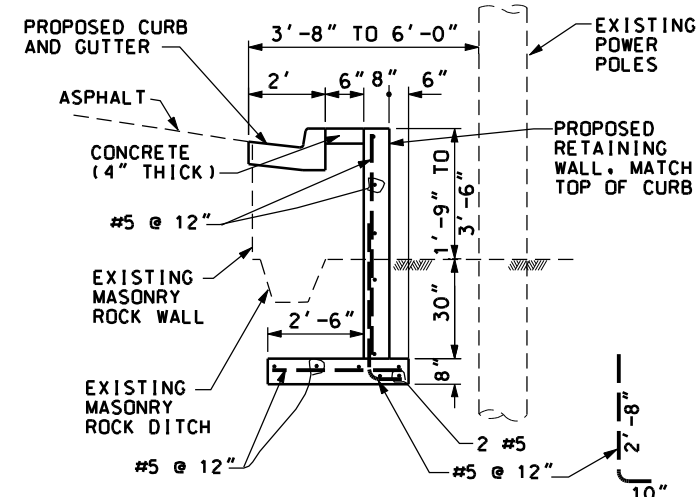




1. ALL CATCH BASINS TO BE CONCRETE WITH MINIMUM INSIDE DIMENSIONS OF 2' x 3'
2. CURB INLETS USE D&L SUPPLY I-3517 OR APPROVED EQUAL
3. INLETS NOT ON CURB USE D&L SUPPLY I-3534 AND I-3536 OR APPROVED EQUAL
4. JUNCTION BOXES TO BE GENEVA 3x3 CONCRETE CATCH BASIN OR EQUAL.
5. JUNCTION BOXES USE CONCRETE LID WITH D&L E-1926 (OR APPROVED EQUAL) LID AND COVER.
6. CONTRACTOR TO REPAIR DAMAGED SPRINKLER BEHIND CURB AND GUTTER. FILL BEHIND NEW CURB WITH TOPSOIL AND SOD WHERE IMPACTS EXCEED FOUR INCHES FROM BACK OF CURB
7. WHERE EXISTING SIDEWALKS APPROACH CURB. REMOVE SIDEWALK BACK TO FIRST JOINT AND REPLACE MATCH CURB.
8. FOR CURB CUTS TO DRIVEWAYS. REMOVE 4' (MIN) ASPHALT AND REPLACE SLOPING TO CURB.



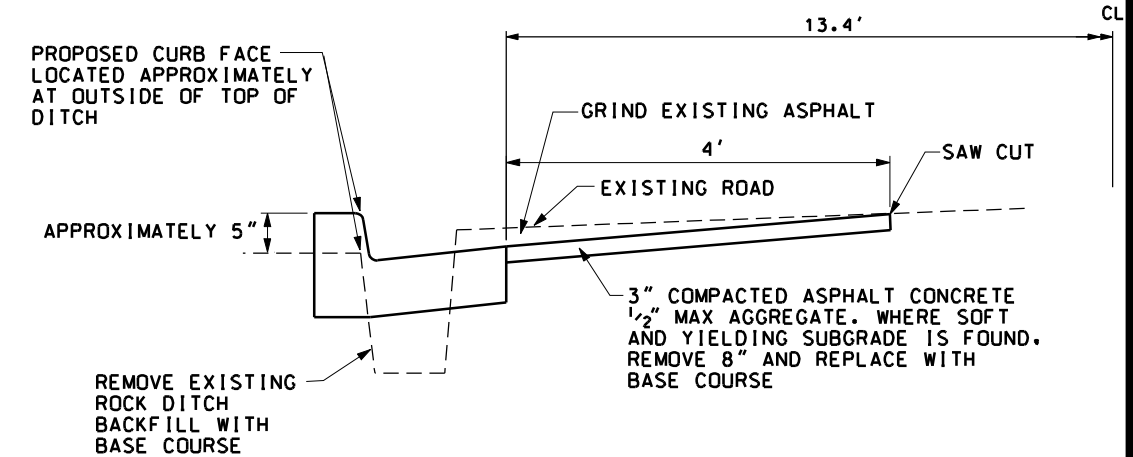
WALL HEIGHT < 1'-9"



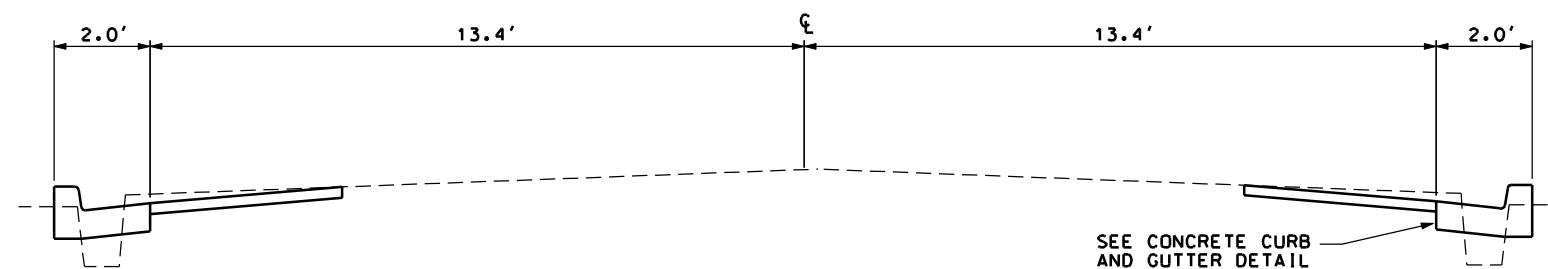
WALL HEIGHT > 1'-9"

RETAINING WALL DETAILS

NTS



CONCRETE CURB & GUTTER



TYPICAL SECTION

SCALE	NTS
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DETAIL SHEET I

UTAH
COUNTY

SHEET NO. DT-2